

Datasheet for ABIN7321284
PRKAA2 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	PRKAA2
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRKAA2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat AMPK alpha2 Protein (His Tag)
Sequence:	Tyr16-Val195
Characteristics:	A DNA sequence encoding the Rat AMPK alpha2 (Q09137-1) (Tyr16-Val195) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>85 % as determined by reducing SDS-PAGE.

Target Details

Target:	PRKAA2
Alternative Name:	AMPK alpha2 (PRKAA2 Products)
Background:	Background: The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated,

Target Details

and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.

Synonym: 5'-AMP-activated protein kinase catalytic subunit alpha-2,AAPK2,ACACA kinase,Acetyl-CoA carboxylase kinase,AMPK alpha 2 chain,AMPK subunit alpha-2,AMPK2,AMPKa2,AMPKalpha2,HMGCR kinase,Hydroxymethylglutaryl-CoA reductase kinase,PRKAA,PRKAA2,Protein kinase AMP activated alpha 2 catalytic subunit,Protein kinase AMP activated catalytic subunit alpha 2

Molecular Weight: 20 kDa

Pathways: [AMPK Signaling](#), [Carbohydrate Homeostasis](#), [Chromatin Binding](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

Application Details

Restrictions: For Research Use only

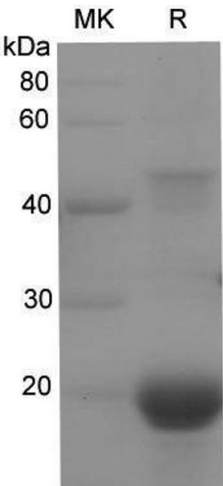
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris,1 mM EDTA,25 % glycerol, pH 8.0

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.